Chriz B/ 1 partially in cross section to clarify the details of the invention. In this view, the pointed end portion 7 and substantially all of the threaded shank portion 8 has moved through the opening in the sheet metal member 5 and entered the wood structural member 2. The knurled portion 14 has not yet entered the bore opening 3.

FIG. 3 is partial central sectional view of the wood screw shown in FIGS. 1 and 2 in which the knurled portion 14 has just passed through the opening in the sheet metal member 5 and has entered the wood structural member 2. A portion of the knurled portion 14 has been removed to show 10 how the portions between the knurls fill up with mashed wood fibers from the wood structural member.

(2) Please replace the paragraph on page 6 of the Specification, beginning at line 8 and ending on line 36 as follows:

Referring now in detail to the wood screw 1 of the present invention

15 as most clearly shown in FIGS. 1 and 2, the screw 1 includes; a shank 6 having an overall length 44; a pointed end portion 7 formed on an entering extremity of the shank 6; the shank 6 having a threaded shank portion 8 having thread convolutions 9 with an outer diameter 10 greater than the diameter of the first bore 3 and beginning at a first point 11 adjacent the 20 pointed end portion 7 and extending axially along the periphery of the shank 6 to a second point 12 and adapted to form and engage threads 13 in the wood structural member 2; knurled portion 14 formed in a portion of the shank 6 having a first point 15 adjacent the second point 12 of the threaded shank portion 8 and extending axially along the shank 6 to a second point 25 16 and having an outside diameter 17 generally equal to the outer diameter 10 of the thread convolutions 9 in the threaded shank portion 8 and having an inside diameter 18 (see FIG. 4) less than the outside diameter 17 of the knurled portion 14; the shank 6 having an unthreaded shank portion 19 having a diameter 20 generally equal to the outside diameter 17 of the 30 knurled portion 14 and having a first point 21 adjacent the second point 16 of the knurled portion 14 and extending axially along the shank 6 and terminating at a second point 22; the knurled portion 14 being adapted for mashing over and radially outwardly without severing a substantial proportion of the wood fibers of the inner portions 23 of the threads 13

35 form d in the wood structural member 2 forming an annular zone 55 of

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- 1 mashed and severed, as well as unsevered wood fib rs having an outer diameter 56 greater than the diameter 20 of the unthreaded shank portion 19 and forming a tight fit between the unthreaded shank portion 19 and the annular zone 55 of mashed and severed, as well as unsevered, wood fibers of the wood structural member 2; and a head 26 integrally connected to the shank 6 adjacent the second point 22 of the unthreaded shank portion 19.
 - (3) Please replace the paragraphs of the Specification on page 7, beginning at line 21 and ending on line 28 as follows:
- Referring to FIG. 3, knurled portion 14 may be double knurled in a cross hatched pattern or have single straight knurls formed at an angle to the axis of the screw. It has been found, however, that straight knurls 30 (see FIG. 2) having a dull edge 47 and valleys 48 between the dull edges 47 perform satisfactorily.
 - It has also been found that where the axial length 31 (see FIG. 1) of the knurled portion 14 is substantially less than the axial length 32 of the unthreaded shank portion 19 satisfactory results are obtained.
 - (4) Please replace the paragraphs of the Specification on page 8, beginning at line 25 and ending on page 9, line 19 as follows:
- Referring to FIG. 3, as the tapered entering portion 54 (see FIG. 3) of knurled portion 14 of wood screw 1 reaches outer face 53 of wood structural member 2, the dull edges 47 of each knurl 30 engage inner portions 23 of threads 13. It is preferable to taper the entering portions 54 of the knurled portion 14 as shown in the drawings to lessen the shock as the knurls 30 strike the inner portions 23 of threads 13. Referring to FIG. 2, tapered entering portion 54 is bounded by lower bevel end 60 and upper bevel end 59. This is especially important since as previously stated edges 47 of the knurls 30 are dull and thus there is a greater resistance encountered by the wood screw 1 as it proceeds through the wood 30 structural member 2.

The function of the dull edges 47 of knurls 30 is to bend the inner portions 23 of threads 13 in the structural wood member so as to mash rath r than to sever a substantial portion of the wood fibers of the structural wood member. These bent over and mashed wood fibers as well as the 35 sev r d wood fibers ar illustrated in FIGS. 3 and 4 and are indicat d

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1 generally by the number 55 which repr sents an annular zone of mashed and severed, as well as unsevered, wood fibers. The annular zone of mashed wood fibers 55, as seen when wood screw 1 is fully seated, is bounded by the space outboard of diameter 20 of unthreaded shank portion 19 and outer diameter 56 of the mashed fiber annular zone. Annular zone of mashed wood fibers 55 as seen in FIG. 4 extends from outer face 53 of wood structural member 2 to penetration point 61 (see FIG. 4) of upper bevel end 59 of knurled portion 14 (see FIG. 2).

As the knurled portion 14 proceeds into the wood structural member 10 2, the valleys 48 between the dull edge ridges 47 of knurls 30 fill with the unsevered fiber ends as well as severed wood fibers of the mashed over inner portions 23 of threads 13 and loose cuttings from the cutting edge 29 on the pointed end portion 7 of the wood screw 1. This filling of the valleys 48 in the knurls 30 further reduces the cutting or severing of the wood fibers as the knurl portion 14 continues through the wood structural member 2.

(5) Please replace the paragraph of the Specification on page 9, beginning at line 35 and ending on page 10, line 3 as follows:

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By sizing the knurled portion 14 with an outside diameter 17 generally 20 equal to the outer diameter 10 of the thread convolutions 9 in the threaded shank portion 8 and generally equal to the diameter 20 of the unthreaded shank portion 19, wood splitting as the unthreaded shank portion enters the wood structural member 2 is obviated.

(6) Please replace the paragraph of the Specification on page 10,

25 beginning at line 12 and ending on line 22 as follows:

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Some typical dimensions of wood screws of the present invention having an overall shank length 44 measured from the underside 50 of washer 35 to the point 51 ranging from 1 1/2" to 3 1/2" are as follows: The length 33 of the threaded section 8 may vary from 7/8" to 3 1/4" while the axial 30 length 31 of the knurled portion 14 remains at a constant .250". and the length 32 of the unthreaded shank portion 19 varies with the length of the wood screw 1. For example, where the shank length is 1 1/2", the unthreaded shank portion 19 may be 5/8" whereas an overall shank length 44 of 3 1/2" may have an unthreaded shank length 19 of 1 1/4". Outer 35 diameter 10 of thr ad convolutions 9 may have a diameter for 0.259 - 0.250"

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1 and an inner diameter of 0.187" to 0.183".

(7) Please replace the paragraph of the \$pecification on page 10, beginning at line 29 and ending on line 34 as follows:

Referring to FIGS. 7, 8, and 9, a truss 70 is illustrated having top
5 chords 71 and 72, web members 76 and a bottom chord 73. To share
loads, additional trusses may be placed side by side and at least one of the
chords of each adjacent truss should be wood and joined by screws 1. As
illustrated, all of the chords 71 - 73 are wood and all of the multi-ply chords
71- 73 are joined by screws 1.

10 (8) Please replace the paragraph of the Specification on page 11, beginning at line 35 and ending on line 35 as follows:

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Truss lateral bracing should normally be connected to each truss ply.

Clean-up Form in the Abstract of the Disclosure

15 (1) Please replace the paragraph of the Abstract of The Disclosure on page 19, beginning at line 1 and ending on line 11 as follows:

ABSTRACT OF THE DISCLOSURE

A wood screw for joining multi-ply wood structures in a shear connection such as roof trusses and multiple plies of structural composite or sawn lumber holding a wood structural member to another member such as a sheet metal member a heavy metal member or another wood member wherein the screw includes a shank having a threaded portion and an unthreaded portion. A knurled portion is provided on the shank between the threaded and the unthreaded portion for forming an annular zone of mashed and severed, as well as unsevered, wood fibers for preventing wood splitting and laterally holding the screw to the wood structural members in a tight fit.

REMARKS

Applicant wishes to thank the Examiner for returning the undersigned's telephone call on Jan. 9, 2001 and discussing the procedure 30 for filing this amendment. The substance of the amendment was not discussed.

Applicants respectfully request that the paragraphs noted above in the Sp cification be entered so that the Specification may be more clearly understo d.

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